

What is claimed is:

1 1. A system comprising:
2 one or more interfaces to one or more corresponding networks coupled to
3 plural endpoints; and
4 a controller adapted to receive a call request and to establish a call session
5 between a first endpoint and a second endpoint in which media is exchanged between the
6 first and second endpoints,
7 the controller adapted to further pivot the second endpoint to one other
8 endpoint in the call session without exchanging call setup signaling with the first
9 endpoint to enable media to be exchanged between the first endpoint and the other
10 endpoint.

1 2. The system of claim 1, wherein the controller is adapted to further pivot
2 the first endpoint to another endpoint in the call session without exchanging call setup
3 signaling with the second endpoint.

1 3. The system of claim 1, wherein the controller is adapted to process
2 Session Initiation Protocol messages, the call request comprising an INVITE message.

1 4. The system of claim 1, wherein the controller pivots the second endpoint
2 to the one other endpoint by sending a second call request to the other endpoint.

1 5. The system of claim 4, wherein the controller comprises a control portion
2 to process call control signaling, the call control signaling comprising the call request, the
3 controller further comprising a media engine to control communication of media packets
4 between the first and second endpoints and between the first and the other endpoints.

1 6. The system of claim 5, wherein the media engine comprises network
2 address translation information for media communication between the first endpoint and
3 the second endpoint.

1 7. The system of claim 6, wherein the media engine is adapted to
2 dynamically modify the address translation information during the call session to enable
3 pivoting of the second endpoint to the other endpoint.

1 8. The system of claim 7, wherein the controller is adapted to further pivot
2 the first endpoint to another endpoint in the call session without exchanging call setup
3 signaling with the second endpoint, and wherein the media engine is adapted to further
4 dynamically modify the address translation information during the call session to enable
5 pivoting of the first endpoint.

1 9. The system of claim 7, wherein the media engine comprises a storage
2 device to store the address translation information.

1 10. The system of claim 5, wherein the media engine is adapted to convert
2 both the source and destination address of a packet containing media using the address
3 translation information.

1 11. The system of claim 10, wherein the media engine is adapted to act as a
2 portal through which media packets between the first and second endpoints flow.

1 12. The system of claim 11, wherein the media engine is adapted to shield an
2 address of the first endpoint from the second endpoint and to shield an address of the
3 second endpoint from the first endpoint.

1 13. An article comprising at least one storage medium containing instructions
2 for providing a call session, the instructions when executed causing a system to:
3 receive a call request;
4 establish a call session between the first endpoint and a second endpoint in
5 which media is exchanged between the first endpoint and the second endpoint; and
6 change the second endpoint to a third endpoint in the call session to enable
7 communication of media between the first endpoint, wherein changing the second

8 endpoint to the third endpoint is accomplished without exchanging call setup signaling
9 with the first endpoint.

1 14. The article of claim 13, wherein the instructions when executed cause the
2 system to further change the first endpoint to another endpoint in the call session without
3 exchanging call setup signaling with the second endpoint.

1 15. The article of claim 13, wherein the instructions when executed cause the
2 system to further send a call request to the third endpoint to change endpoints in the call
3 session but not sending a call request to the first endpoint.

1 16. The article of claim 13, wherein the instructions when executed cause the
2 system to further receive a completion indication from the second endpoint, and in
3 response to the completion indication, to send the call request to the third endpoint.

1 17. The article of claim 13, wherein the instructions when executed cause the
2 system to further send one or more requests to a media engine to establish network
3 address translation information for media communicated through the media engine
4 between the first and second endpoints.

1 18 The article of claim 16, wherein the instructions when executed cause the
2 system to further send one or more requests to the media engine to update the address
3 translation information to dynamically change the second endpoint to the third endpoint
4 in the call session.

1 19. The article of claim 18, wherein the instructions when executed cause the
2 system to further send another request to the media engine to update the translation
3 information to dynamically change the first endpoint to another endpoint.

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1 20. The article of claim 13, wherein the instructions when executed cause the
2 system to receive the call request by receiving a Session Initiation Protocol INVITE
3 message.

1 21. A method of providing a call session, comprising:
2 establishing a call session between a first endpoint and a second endpoint
3 to enable media communication of media between the first and second endpoints; and
4 pivoting the second endpoint to a third endpoint in the call session without
5 exchanging call setup signaling with the first endpoint to enable media communication
6 between the first and third endpoints.

1 22. The method of claim 21, further comprising sending a call request to the
2 third endpoint, but not sending a call request to the first endpoint, to pivot the second
3 endpoint to the third endpoint in the call session.

1 23. The method of claim 21, further comprising communicating media packets
2 through a media portal between the first endpoint and either of the second and third
3 endpoints.

1 24. The method of claim 23, further comprising storing network address
2 translation information in the media portal and performing network address translation, at
3 the media portal, of addresses contained in the media packets.

1 25. The method of claim 24, wherein performing the network address
2 translation comprises performing network address translation of both the source and
3 destination address of each media packet.

1 26. The method of claim 25, further comprising the media portal shielding an
2 address of the first endpoint from either of the second or third endpoint and shielding an
3 address of either the second or third endpoint from the first endpoint.

- 1 27. The method of claim 21, wherein establishing the call session comprises
- 2 establishing a Session Initiation Protocol session.

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